



#2

OIPE

RAW SEQUENCE LISTING DATE: 04/26/2001 PATENT APPLICATION: US/09/769,970 TIME: 17:20:02

Input Set : N:\Crf3\RULE60\09769970.txt
Output Set: N:\CRF3\04262001\I769970.raw

## SEQUENCE LISTING

```
3 (1) GENERAL INFORMATION:
             (i) APPLICANT: Bandman, Olga
      6
                             Hillman, Jennifer L.
                             Corley, Neil C.
      8
                             Guegler, Karl G.
                             Lal, Preeti
      9
                             Goli, Surya K.
     10
                             Shah, Purvi
     11
C--> 13
            (ii) TITLE OF INVENTION: DISEASE ASSOCIATED PROTEIN
     14
                                      KINASES
           (iii) NUMBER OF SEQUENCES: 21
     16
     18
            (iv) CORRESPONDENCE ADDRESS:
                   (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.
     19
     20
                   (B) STREET: 3174 Porter Drive
     21
                  (C) CITY: Palo Alto
                   (D) STATE: CA
     22
                  (E) COUNTRY: USA
     23
     24
                  (F) ZIP: 94304
     26
             (V) COMPUTER READABLE FORM:
                   (A) MEDIUM TYPE: Diskette
     27
                   (B) COMPUTER: IBM Compatible
     28
                  (C) OPERATING SYSTEM: DOS
     29
     30
                  (D) SOFTWARE: FastSEQ for Windows Version 2.0
     32
            (vi) CURRENT APPLICATION DATA:
C--> 33
                  (A) APPLICATION NUMBER: US/09/769,970
C--> 34
                  (B) FILING DATE: 24-Jan-2001
     35
                  (C) CLASSIFICATION:
           (vii) PRIOR APPLICATION DATA:
     37
     38
                  (A) APPLICATION NUMBER: 09/272,796
     39
                  (B) FILING DATE:
          (viii) ATTORNEY/AGENT INFORMATION:
     43
     44
                  (A) NAME: Billings, Lucy J J
     45
                  (B) REGISTRATION NUMBER: 36,749
                  (C) REFERENCE/DOCKET NUMBER: PF-0321 US
     46
            (ix) TELECOMMUNICATION INFORMATION:
     48
                  (A) TELEPHONE: 415-855-0555
     49
                  (B) TELEFAX: 415-845-4166
                  (C) TELEX:
        (2) INFORMATION FOR SEQ ID NO: 1:
     56
             (i) SEQUENCE CHARACTERISTICS:
     57
                  (A) LENGTH: 685 amino acids
                  (B) TYPE: amino acid
     58
                  (C) STRANDEDNESS: single
     59
     60
                  (D) TOPOLOGY: linear
     62
           (vii) IMMEDIATE SOURCE:
```

(A) LIBRARY: HUVENOB01

**ENTERED** 

63

RAW SEQUENCE LISTING DATE: 04/26/2001 PATENT APPLICATION: US/09/769,970 TIME: 17:20:02

Input Set : N:\Crf3\RULE60\09769970.txt
Output Set: N:\CRF3\04262001\1769970.raw

(B) CLONE: 39043 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: Met Glu Leu Leu Arg Thr Ile Thr Tyr Gln Pro Ala Ala Ser Thr Lys Met Cys Glu Gln Ala Leu Gly Lys Gly Cys Gly Ala Asp Ser Lys Lys Lys Arg Pro Pro Gln Pro Pro Glu Glu Ser Gln Pro Pro Gln Ser Gln Ala Gln Val Pro Pro Ala Ala Pro His His His His His Ser His Ser Gly Pro Glu Ile Ser Arg Ile Ile Val Asp Pro Thr Thr Gly Lys Arg Tyr Cys Arg Gly Lys Val Leu Gly Lys Gly Gly Phe Ala Lys Cys Tyr Glu Met Thr Asp Leu Thr Asn Asn Lys Val Tyr Ala Ala Lys Ile Ile Pro His Ser Arg Val Ala Lys Pro His Gln Arg Glu Lys Ile Asp Lys Glu Ile Glu Leu His Arg Ile Leu His His Lys His Val Val Gln Phe Tyr His Tyr Phe Glu Asp Lys Glu Asn Ile Tyr Ile Leu Leu Glu Tyr Cys Ser Arg Arg Ser Met Ala His Ile Leu Lys Ala Arg Lys Val Leu Thr Glu Pro Glu Val Arg Tyr Tyr Leu Arg Gln Ile Val Ser Gly Leu Lys Tyr Leu His Glu Gln Glu Ile Leu His Arg Asp Leu Lys Leu Gly Asn Phe Phe Ile Asn Glu Ala Met Glu Leu Lys Val Gly Asp Phe 95, Gly Leu Ala Ala Arg Leu Glu Pro Leu Glu His Arg Arg Thr Ile Cys Gly Thr Pro Asn Tyr Leu Ser Pro Glu Val Leu Asn Lys Gln Gly His Gly Cys Glu Ser Asp Ile Trp Ala Leu Gly Cys Val Met Tyr Thr Met Leu Leu Gly Arg Pro Pro Phe Glu Thr Thr Asn Leu Lys Glu Thr Tyr Arg Cys Ile Arg Glu Ala Arg Tyr Thr Met Pro Ser Ser Leu Leu Ala Pro Ala Lys His Leu Ile Ala Ser Met Leu Ser Lys Asn Pro Glu Asp Arg Pro Ser Leu Asp Asp Ile Ile Arg His Asp Phe Phe Leu Gln 325 -110 Gly Phe Thr Pro Asp Arg Leu Ser Ser Cys Cys His Thr Val Pro Asp Phe His Leu Ser Ser Pro Ala Lys Asn Phe Phe Lys Lys Ala Ala Ala Ala Leu Phe Gly Gly Lys Lys Asp Lys Ala Arg Tyr Ile Asp Thr

RAW SEQUENCE LISTING DATE: 04/26/2001 PATENT APPLICATION: US/09/769,970 TIME: 17:20:02

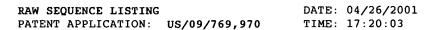
Input Set : N:\Crf3\RULE60\09769970.txt
Output Set: N:\CRF3\04262001\I769970.raw

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370
                             375
115
                                                  380
116 His Asn Arg Val Ser Lys Glu Asp Glu Asp Ile Tyr Lys Leu Arg His
                         390
                                              395
117
     Asp Leu Lys Lys Thr Ser Ile Thr Gln Gln Pro Ser Lys His Arg Thr
118
119
                                          410
                                                              415
120
     Asp Glu Glu Leu Gln Pro Pro Thr Thr Val Ala Arg Ser Gly Thr
121
                                      425
123
     Pro Ala Val Glu Asn Lys Gln Gln Ile Gly Asp Ala Ile Arg Met Ile
124
             435
                                 440
                                                      445
125
     Val Arg Gly Thr Leu Gly Ser Cys Ser Ser Ser Glu Cys Leu Glu
126
                             455
                                                  460
127
     Asp Ser Thr Met Gly Ser Val Ala Asp Thr Val Ala Arg Val Leu Arg
                         470
                                              475
128
129
     Gly Cys Leu Glu Asn Met Pro Glu Ala Asp Cys Ile Pro Lys Glu Gln
130
                     485
                                          490
                                                              495
131
     Leu Ser Thr Ser Phe Gln Trp Val Thr Lys Trp Val Asp Tyr Ser Asn
                                      505
132
                 500
133
     Lys Tyr Gly Phe Gly Tyr Gln Leu Ser Asp His Thr Val Gly Val Leu
134
             515
                                 520
                                                      525
     Phe Asn Asn Gly Ala His Met Ser Leu Leu Pro Asp Lys Lys Thr Ala
135
136
                             535
                                                  540
     His Tyr Tyr Ala Glu Leu Gly Gln Cys Ser Val Phe Pro Ala Thr Asp
137
138
                         550
                                              555
     Ala Pro Glu Gln Phe Ile Ser Gln Val Thr Val Leu Lys Tyr Phe Ser
139
140
                                          570
                     565
141
     His Tyr Met Glu Glu Asn Leu Met Asp Gly Gly Asp Leu Pro Ser Val
142
                                      585
                                                          590
143
     Thr Asp Ile Arg Arg Pro Arg Leu Tyr Leu Leu Gln Trp Leu Lys Ser
144
             595
                                 600
                                                      605
145
     Asp Lys Ala Leu Met Met Leu Phe Asn Asp Gly Thr Phe Gln Val Asn
         610
146
                             615
                                                  620
147
     Phe Tyr His Asp His Thr Lys Ile Ile Cys Ser Gln Asn Glu Glu
                         630
                                              635
     Tyr Leu Leu Thr Tyr Ile Asn Glu Asp Arg Ile Ser Thr Thr Phe Arg
150
                     645
                                          650
151
     Leu Thr Thr Leu Leu Met Ser Gly Cys Ser Ser Glu Leu Lys Asn Arg
152
                660
                                     665
     Met Glu Tyr Ala Leu Asn Met Leu Leu Gln Arg Cys Asn
153
154
             675
                                 680
156 (2) INFORMATION FOR SEQ ID NO: 2:
158
         (i) SEQUENCE CHARACTERISTICS:
159
              (A) LENGTH: 448 amino acids
              (B) TYPE: amino acid
160
              (C) STRANDEDNESS: single
161
              (D) TOPOLOGY: linear
162
       (vii) IMMEDIATE SOURCE:
164
165
              (A) LIBRARY: TBLYNOT01
166
              (B) CLONE: 40194
168
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
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RAW SEQUENCE LISTING DATE: 04/26/2001 PATENT APPLICATION: US/09/769,970 TIME: 17:20:02

Input Set : N:\Crf3\RULE60\09769970.txt
Output Set: N:\CRF3\04262001\1769970.raw

170		Pro	Pro	Lys	_	Asn	Glu	Lys	Tyr		Leu	Pro	Ile	Pro		Pro
171	1		_		- 5	_	_			10	_		_		15	
172	Glu	Gly	Lys		Leu	Asp	Asp	Met		GLy	Asn	GIn	Trp		Leu	GLY
173				20					25					30	_	
174	Lys	Lys		Gly	Ser	Gly	Gly		Gly	Leu	Ile	Tyr		Ala	Phe	Pro
175			35					40					45			
176	Thr	Asn	Lys	Pro	Glu	Lys	Asp	Ala	Arg	His	Val	Val	Lys	Val	Glu	Tyr
177		50					55					60				
178	Gln	Glu	Asn	Gly	Pro	Leu	Phe	Ser	Glu	Leu	Lys	Phe	Tyr	Gln	Arg	Val
179	65					70					75					80
180	Ala	Lys	Lys	Asp	Cys	Ile	Lys	Lys	Trp	Ile	Glu	Arg	Lys	Gln	Leu	Asp
181					85					90					95	
183	Tyr	Leu	Gly	Ile	Pro	Leu	Phe	Tyr	Gly	Ser	Gly	Leu	Thr	Glu	Phe	Lys
184				100					105					110		
185	Gly	Arg	Ser	Tyr	Arg	Phe	Met	Val	Met	Glu	Arg	Leu	Gly	Ile	Asp	Leu
186	_	_	115	-	_			120			_		125		_	
187	Gln	Lvs	Ile	Ser	Glv	Gln	Asn	Glv	Thr	Phe	Lvs	Lvs	Ser	Thr	Val	Leu
188		130			•		135	•			•	140				
189	Gln	Leu	Glv	Ile	Ara	Met		Asp	Val	Leu	Glu		Ile	His	Glu	Asn
190	145		1		5	150					155	- 4 -				160
191		Tvr	Val	His	Glv	Asp	Val	Lvs	Δla	Ala		Len	Len	Leu	Glv	
192	014	-1-	,		165					170					175	-1-
193	Lvs	Asn	Pro	Asp		Val	Tvr	Len	Ala		Tvr	Glv	Leu	Ser		Ara
194	_,_		110	180	<b>01</b>	,	-1-	200	185		-1-	<b>U</b> 1		190	-1-	5
195	Tur	Cvs	Pro		Glv	Asn	His	I.vc		Tur	Gln	Glu	Δsn		Δra	Lve
196	- y -	Cys	195	non	GLY	non.	1113	200	GIII	171	GIII	GIU	205	110	nry	цуз
197	G) v	ніс		Cl v	Thr	Ile	Glu		Thr	Sor	Leu	Aen		uie	T.v.e	Glv
198	GLY	210	HOII	Gry	1111	116	215	rne	1111	Ser	neu	220	пта	1113	цуз	GLY
199	Val		Clu	т10	λla	Gln		LOU	Val	Cvc	λla		Sor	LOU	λla	Птт х
200	225	GIY	GIU	116	на	230	FILE	пеп	vai	Cys	235	nis	ser	ьеu	ніа	240
		C1	T	D	3		C1 -	21-	T	T		т1.	T	3	Dwa	
201	ASP	GIU	гаг	PIO		Tyr	GIII	Ата	Leu		ьys	116	Leu	ASII		HIS
202	<b>61</b>	<b>T1</b> -	D	<b>.</b>	245	D	<b>.</b>		D1	250	m1	<b>*</b> =	<b>a</b> 1	a1 -	255	T1 -
203	GLY	TTE	Pro		GTÅ	Pro	Leu	Asp		Ser	Thr	гàг	GIA		ser	11e
204	_			260	_	_	<b>~</b>	- 1	265		_	_	-1	270		
205	Asn	vaı		Thr	Pro	Asn	Ser		rys	vai	Asp	Ser		гàг	Ala	Ala
206			275					280					285		_	
207	Thr	-	Gln	Val	Asn	Lys		His	Asn	Arg	Leu		Glu	Lys	Lys	Val
208		290					295					300				
209		Ser	Glu	Arg	Ser	Ala	Glu	Ser	Cys	Ala		Trp	Lys	Val	Gln	_
210	305					310					315					320
211	Glu	Glu	Lys	Leu		Gly	Leu	Met	Asn		Glu	Ala	Ala	Gln		Ser
212					325					330				•	335	
213	Thr	Arg	Arg	Arg	Gln	Lys	Tyr	Gln	Glu	Ser	Gln	Glu	Pro	Leu	Asn	Glu
214				340					345					350		
215	Val	Asn	Ser	Phe	Pro	Gln	Lys	Ile	Ser	Tyr	Thr	Gln	Phe	Pro	Asn	Ser
216			355					360					365			
217	Phe	Tyr	Glu	Pro	His	Gln	Asp	Phe	Thr	Ser	Pro	Asp	Ile	Phe	Lys	Lys
218		370					375					380				
219	Ser	Arg	Ser	Pro	Ser	Trp	Tyr	Lys	Tyr	Thr	Ser	Thr	Val	Ser	Thr	Gly



Input Set : N:\Crf3\RULE60\09769970.txt
Output Set: N:\CRF3\04262001\I769970.raw

```
220
     385
                         390
221
     Ile Thr Asp Leu Glu Ser Ser Thr Gly Leu Trp Pro Thr Ile Ser Gln
222
                     405
                                          410
     Phe Thr Leu Ser Glu Glu Thr Asn Ala Asp Val Tyr Tyr Tyr Arg Ile
223
224
                 420
                                      425
                                                          430
     Ile Ile Pro Val Leu Leu Met Leu Val Phe Leu Ala Leu Phe Phe Leu
225
             435
                                  440
                                                       445
228 (2) INFORMATION FOR SEQ ID NO: 3:
230
         (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 400 amino acids
231
232
              (B) TYPE: amino acid
233
              (C) STRANDEDNESS: single
234
              (D) TOPOLOGY: linear
236
       (vii) IMMEDIATE SOURCE:
237
              (A) LIBRARY: TMLR3DT01
238
              (B) CLONE: 402339
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
240
     Met Leu Ala Arg Arg Lys Pro Val Leu Pro Ala Leu Thr Ile Asn Pro
242
243
                                          10
     Thr Ile Ala Glu Gly Pro Ser Pro Thr Ser Glu Gly Ala Ser Glu Ala
244
245
                 20
                                     25
246
     Asn Leu Val Asp Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp Glu
247
                                 40
                                                      45
248
     Gln Gln Lys Lys Arg Leu Glu Ala Phe Leu Thr Gln Lys Ala Lys Val
249
                             55
                                                  60
250
     Gly Glu Leu Lys Asp Asp Phe Glu Arg Ile Ser Glu Leu Gly Ala
251
                         70
                                              75
252
     Gly Asn Gly Gly Val Val Thr Lys Val Gln His Arg Pro Ser Gly Leu
253
                     85
                                          90
254
     Ile Met Ala Arg Lys Leu Ile His Leu Glu Ile Lys Pro Ala Ile Arg
255
                 100
                                      105
                                                          110
     Asn Gln Ile Ile Arg Glu Leu Gln Val Leu His Glu Cys Asn Ser Pro
256
257
                                 120
                                                      125
     Tyr Ile Val Gly Phe Tyr Gly Ala Phe Tyr Ser Asp Gly Glu Ile Ser
                             135
                                                  140
260
     Ile Cys Met Glu His Met Asp Gly Gly Ser Leu Asp His Leu Leu Lys
261
                                              155
                         150
262
     Glu Ala Lys Arg Ile Pro Glu Glu Ile Leu Gly Lys Val Ser Ile Ala
263
                                          170
                     165
264
     Val Leu Arg Gly Leu Ala Tyr Leu Arg Glu Lys His Gln Ile Met His
265
                 180
                                     185
266
     Arg Asp Val Lys Pro Ser Asn Ile Leu Val Asn Ser Arg Gly Glu Ile
267
            195
                                 200
                                                      205
     Lys Leu Cys Asp Phe Gly Val Ser Gly Gln Leu Ile Asp Ser Met Ala
268
                                                  220
269
        210
                             215
270
     Asn Ser Phe Val Gly Thr Arg Ser Tyr Met Ala Pro Glu Arg Leu Gln
271
                         230
                                              235
272
     Gly Thr His Tyr Ser Val Gln Ser Asp Ile Trp Ser Met Gly Leu Ser
273
                     245
                                          250
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/769,970

DATE: 04/26/2001 TIME: 17:20:04

Input Set : N:\Crf3\RULE60\09769970.txt
Output Set: N:\CRF3\04262001\I769970.raw

L:3 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:13 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:33 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:34 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5